

WHAT IS CLAIMED IS:

1. A repeater equipment comprising a client side terminal connected to a client, server side terminals connected to servers, a cache server side terminal connected to a cache server and repeat control means provided in between said client side terminal, said server side terminals and said cache server side
5 terminal; wherein
said repeat control means provides a means for repeating a repeat request signal coming into said client side terminal to said cache server side terminal and a means for repeating digital information coming into said cache server side terminal that corresponds to that request signal to said client side
10 terminal which is connected to the client that delivered that request signal;
said cache server provides a means for requesting from said servers, forwarding of the appropriate digital information at times when digital information appropriate to said request signal is not stored within said cache server itself;
15 said repeat control means provides a means for repeating to said server side terminals, this forwarding request signal of said means for requesting coming to said cache server side terminal, and a means for repeating digital information coming to said server side terminal that corresponds to the forwarding request signal to said cache server side terminal;
20 said cache server provides a means for sending said digital information forwarded from said servers with the address of the client that sent the request signal for the appropriate digital information; and
said repeat control means provides a means for repeating digital information coming to said cache server side terminal to said client side
25 terminal which is connected to the client with that address;
which is provided an address conversion circuit for writing address

information on the client that is the source of the request for digital information leading to that forwarding operation, into said forwarding request signal.

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2. A repeater equipment according to claim 1 wherein multiple said server side terminals are provided for handling multiple different protocols and wherein said repeat control means includes a means for repeating to the appropriate terminal with matching protocol from among said multiple server
- 5 side terminals in accordance with a process identifier included in the request signal coming from said client side terminal.

3. A repeater equipment according to claim 2 wherein said multiple protocols include HTTP and SMTP.

4. A storage medium in which is stored a control program which when stored in a digital processor in which an operating system is set allows the digital processor to operate as a repeater equipment according to claims 1 through 3.